

Appln. No. 09/966,634
Response to Office Action dated 11/10/03

Attorney Docket No. 10541-296

I. Listing of Claims

1. (Previously presented): An integrated light and accessory assembly for a motor vehicle, comprising:

an insulator having first and second opposing sides;

at least one reflector mounted on the first side of said insulator;

at least one conductor mounted on the second side of said insulator;

at least one lamp ~~connected to said at least one conductor and assembled on~~
the first side and inside said at least one reflector, the at least one lamp having
contacts extending through the at least one reflector and through the insulator and
engaging the at least one conductor;

at least one control module mounted on said insulator and connected to said
at least one conductor; and

a housing, enclosing the insulator, the at least one reflector, the at least one
conductor, the at least one lamp and the at least one control module,

wherein the lamp and the reflector are adapted to provide illumination, and the
control module is adapted for controlling or supplying power to the at least one lamp.

2. (Original): The assembly of Claim 1, wherein the lamp is selected from the
group consisting of a headlamp, a fog lamp, a side lamp, a parking lamp, a hazard-
warning lamp, a rear-illumination lamp, a dome lamp, and an interior lamp.

3. (Original): The assembly of Claim 2, wherein the lamp is selected from the
group consisting of an incandescent lamp, an LED, and a high-intensity discharge
lamp.

4. (Original): The assembly of Claim 4, wherein the at least one lamp is
releasably mounted inside the housing.

5. (Original): The assembly of Claim 1, wherein the at least one module is
selected from the group consisting of a lighting control module, a power supply, a

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battery charger, a voltage source, a current source, a timer, a sequencer, and a microprocessor controller.

6. (Previously presented): The assembly of Claim 1, further comprising a device mounted to the insulator and connected to least one conductor inside the housing, the device selected from the group consisting of an antenna, a sensor, and a transmitter.

7. (Original): The assembly of Claim 6, wherein the sensor is selected from the group consisting of a light detector, a video camera, a radar detector, a laser detector, an ultrasound detector, and an infrared detector.

8. (Original): The assembly of Claim 6, wherein the transmitter is selected from the group consisting of a toll transponder, a purchasing transponder, an RF transmitter, a microwave transmitter, and an IR transmitter.

9. (Original): The assembly of Claim 1, further comprising a power storage device mounted to the housing and connected to the at least one conductor.

10. (Original): The assembly of Claim 9, further comprising a switch between the power storage device and the at least one lamp.

11. (Original): The assembly of Claim 1, further comprising a functional module and an additional conductor, said functional module connected to said additional conductor, wherein said functional module is mounted to the insulator and is adapted to receive electric power from said additional conductor.

12. (Original): The assembly of Claim 11, wherein the functional module is selected from the group consisting of a video camera controller, a radar detector controller, an active radar controller, a collision avoidance controller, a controller for a toll-collection device, and a health-monitoring sensor module.

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13. (Original): The assembly of Claim 1, further comprising an additional layer of insulation mounted to the at least one conductor, and a ground plane or return mounted to the additional layer of insulation.

14. (Previously presented): An integrated light and accessory assembly for a motor vehicle, comprising:

- an insulator;
- at least one reflector mounted to said insulator;
- at least one conductor mounted to said insulator;
- at least one lamp connected to said at least one conductor and assembled inside said at least one reflector;
- an electronic module mounted on said insulator and connected to said at least one conductor; and
- a housing, enclosing the insulator, the at least one reflector, the at least one conductor, the at least one lamp and the at least one control module,

wherein the lamp and the reflector are being adapted to provide illumination, and the electronic module is being adapted for controlling or supply power to the at least one lamp,

the at least one reflector having a contoured shape to facilitate illumination, the insulator having a contoured shape corresponding to the shape of the reflector.

15. (Previously presented): The integrated light and accessory assembly of Claim 14, wherein the lamp is selected from the group consisting of a headlamp, a fog lamp, a side lamp, a parking lamp, a hazard-warning lamp, a rear-illumination lamp, a dome lamp, and an interior lamp.

16. (Original): The integrated light and accessory assembly of Claim 14, wherein the electronic module is selected from the group consisting of a sensor, an antenna, a transmitter and a controller.

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17. (Original): The integrated light and accessory assembly of Claim 16, wherein the sensor is selected from the group consisting of a light detector, a video camera, a radar detector, a laser detector, an ultrasound detector, and an infrared detector.

18. (Original): The integrated light and accessory assembly of Claim 16, wherein the transmitter is selected from the group consisting of a toll transponder, a purchasing transponder, an RF transmitter, a microwave transmitter, and an IR transmitter.

19. (Original): The integrated light and accessory assembly of Claim 16, wherein the controller is selected from the group consisting of a lighting module controller, a video camera controller, a radar detector controller, an active radar controller, a collision avoidance controller, a controller for a toll-collection device, and a health-monitoring sensor module.

Claims 20-29 (Withdrawn)

30. (New): The integrated light and accessory assembly of Claim 14, wherein the insulators and the at least one reflector are coextensive.

31. (New): An integrated light and accessory assembly for a motor vehicle, comprising:

- an insulator;
- at least one reflector mounted on said insulator;
- at least one conductor mounted on said insulator;
- an additional layer of insulation mounted to the at least one conductor, and a ground plane or return mounted to the additional layer of insulation;
- at least one lamp connected to said at least one conductor and assembled inside said at least one reflector;
- at least one control module mounted on said insulator and connected to said at least one conductor; and

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a housing, enclosing the insulator, the at least one reflector, the at least one conductor, the additional layer of insulation, the ground plane or return, the at least one lamp and the at least one control module,

wherein the lamp and the reflector are adapted to provide illumination, and the control module is adapted for controlling or supplying power to the at least one lamp.

32. (New): The assembly of Claim 1, wherein the insulators and the at least one reflector are coextensive.

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